

AMENDMENTS TO THE SPECIFICATION

Please replace the paragraph beginning on pg. 42, line 19, with the following amended paragraph:

After ensuring that the updated parameters of the model are consistent with the general code generation goals specified in step 130, the wizard collects target specific details as needed to develop to embedded code in 170. The user, in response to a query by the wizard specifies detailed code generation goals through a user interface, such as the user interface used to enter the general goals in step 130 or a different user interface. In step 170 ~~180~~, the user refines the general goals on a more detailed level. For example, if, in step 130, the user specified the code to be Floating point, in step 170 ~~180~~, the user can select between ANSI-C or ISO-C math libraries. RAM, ROM, Stack space, clock frequency and many other hardware characteristics can also be obtained and refined through the interactive wizard. The wizard then processes the selections of the user and configures the model parameters based on the specified detailed code generation goals in step 180.

Please replace the paragraph beginning on pg. 49, line 25, with the following amended paragraph:

Alternatively, the user can initiate step 170 by selecting the “detailed code generation goals” pane 600, which is illustrated in Figures 22A-22I. If the model advisor indicates that no changes are necessary or advised, the user can initiate step 170 directly, without executing step 160. In step 170 ~~160~~, the user optimizes the system and tweaks specific goals for the embedded code to be generated from the selected model at a lower level than the general goals specified in step 130. As shown, in the “detailed code generation goals” pane 600 the wizard collected target specific details as needed to develop the embedded code. For example, the top portion of illustrative pane 600, shown in Figure 22A, includes a list of hyperlinks, where each hyperlink relates to a general configuration goal. By clicking on a hyperlink, a user is directed to a field for inputting specific goals for the embedded code. The specific goals associated with each hyperlink are a subset of the general goal

indicated by the selected hyperlink and are more detailed than the general goal specified in the “general code generation goals” pane.